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December 21, 2001
Date

Samir B. Bryant
Signature

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In Re Application of:

CHEN et al.

Serial No.: 09/710,104

Art Unit: 1648

Filing Date: 9 November 2000

Examiner: S. Brown

Title: INDUCTION OF MUCOSAL IMMUNITY BY
VACCINATION VIA THE SKIN ROUTE

**INFORMATION DISCLOSURE STATEMENT
UNDER 37 C.F.R. § 1.97(b)**

Commissioner for Patents
Washington, D.C. 20231

Sir:

The information listed below may be material to the examination of the above-identified application. Copies of the information and completed PTO-1449 forms are submitted herewith. The Examiner is respectfully requested to make this information of official record in the application. The information includes:

United States Patent No. 4,945,050, to Sanford, issued July 31, 1990;
United States Patent No. 5,100,792, to Sanford et al., issued March 31, 1992;
United States Patent No. 5,120,657, to McCabe et al., issued June 9, 1992;
United States Patent No. 5,149,655, to McCabe, issued Sept. 22, 1992;
United States Patent No. 5,204,253, to Sanford, issued April 20, 1993;
United States Patent No. 5,346,481, to Bunin, issued Sept. 13, 1994;

United States Patent No. 5,503,632, to Haak, issued April 2, 1996;
United States Patent No. 5,569,468, to Modi, issued Oct. 29, 1996;
United States Patent No. 5,584,807, to McCabe, issued Dec. 17, 1996;
United States Patent No. 5,589,466, to Felgner et al., issued Dec. 31, 1996;
United States Patent No. 5,630,796, to Bellhouse et al., issued May 20, 1997;
United States Patent No. 5,718,913, to Dhuique-Mayer et al., issued Feb. 17,
1998;
United States Patent No. 5,738,852, to Robinson et al., issued April 14, 1998;
United States Patent No. 5,780,448, to Davis, issued July 14, 1998;
United States Patent No. 5,785,688, to Joshi et al., issued July 28, 1998;
United States Patent No. 5,840,336, to Hsu et al., issued Nov. 24, 1998;
United States Patent No. 5,865,796, to McCabe, issued Feb. 2, 1999;
United States Patent No. 5,871,460, to Phipps et al., issued Feb. 16, 1999;
United States Patent No. 5,871,751, to Christensen et al., issued Feb. 16, 1999;
United States Patent No. 5,900,238, to Gombotz et al., issued May 4, 1999;
United States Patent No. 5,919,463, to Thomas, Jr. et al., issued July 6, 1999;
United States Patent No. 5,968,006, to Hofmann, issued Oct. 19, 1999;
United States Patent No. 5,983,130, to Phipps et al., issued Nov. 9, 1999;
United States Patent No. 5,989,586, to Hsu et al., issued Nov. 23, 1999;
United States Patent No. 6,008,200, to Krieg, issued Dec. 28, 1999;
United States Patent No. 6,009,345, to Hofmann, issued Dec. 28, 1999;
United States Patent No. 6,010,705, to Thune et al., issued Jan. 4, 2000;
United States Patent No. 6,049,733, to Phipps et al., issued April 11, 2000;
United States Patent No. 6,168,587, to Bellhouse et al., issued Jan. 2, 2001;
United States Patent No. 6,194,389, to Johnston et al., issued Feb. 27, 2001;


International Publication No. WO 94/24263, published Oct. 27, 1994;
International Publication No. WO 96/02555, published Feb. 1, 1996;
International Publication No. WO 96/04947, published Feb. 22, 1996;
International Publication No. WO 96/12513, published May 2, 1996;
International Publication No. WO 96/14855, published May 23, 1996;
International Publication No. WO 96/20022, published July 4, 1996;
International Publication No. WO 97/44446, published Nov. 27, 1997;
International Publication No. WO 97/48485, published Dec. 24, 1997;
International Publication No. WO 98/10750, published March 19, 1998;
International Publication No. WO 98/20734, published May 22, 1998;
International Publication No. WO 99/27961, published June 10, 1999;
International Publication No. WO 99/33488, published July 8, 1999;
Lobb, C.J. (1987) *Developmental and Comparative Immunology* 11:727-738
(abstract only);
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Paul et al. (1998) *Vaccine* 16:188-195;
Spiegelberg et al. (1998) *Allergy* 53:93-97;
Weiner et al. (1998) *Proceedings of the American Association of Cancer Research*
39:551, col. 1, abstract number 3747;
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McCluskie et al. (1999) *Critical Reviews in Immunology* 19:303-329;
Scharton-Kersten et al. (1999) *Vaccine* 17(suppl. 2):S37-S43;
McCluskie et al. (1999) *Vaccine* 18:231-237;
Glenn (1999) *Infection and Immunity* 67:1100-1106;
Glenn et al. (1999) "Advances in vaccine delivery: transcutaneous immunisation,"
Expert Opinion On Investigational Drugs 8(6):797-805; and
Babiuk et al. (2000) *J. Controlled Release* 66:199-214.

This Information Disclosure Statement under 37 CFR § 1.97(b) is not to be construed as a representation that: (i) a complete search has been made; (ii) additional information material to the examination of this application does not exist; (iii) the

information, protocols, results and the like reported by third parties are accurate or enabling; or (iv) the above information constitutes prior art to the subject invention.

Respectfully submitted,

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